

WHAT IS CLAIMED IS:

1. A container for product protection and identification, said product comprising an ophthalmic formulation including 5 chlorine dioxide, said container comprising:

a bottle formed from resins comprising polypropylene, said resins including

a first resin consisting of natural polypropylene;

10 an ultraviolet blocker in said bottle to absorb ultraviolet light at wavelengths below about 312 nm;

a second resin consisting of polypropylene and a set of dyestuffs present in said bottle in an amount sufficient to absorb most visible and ultraviolet wavelength less than about 420nm; and

15 a third resin consisting of polypropylene and a set of dyestuffs present in said bottle in an amount sufficient to absorb most visible wavelengths greater than about 500nm, the second and third resin dyestuffs sets allowing transmission of visible blue wavelengths for enabling visual inspection of 20 the product contained in said bottle and providing a product identifying color to said bottle.

2. The container according to claim 1 wherein the ultraviolet blocking agent, and the second resin dyestuffs 25 consist of a visible and ultraviolet blocking mixture and the third resin dyestuffs consists of a blue/purple color concentrate.

3. The container according to claim 2 wherein a ratio 30 of first resin to second resin present in the bottle is about 20 to 1, a ratio of first to third resin present in the

bottle is about 5 to 1, and a ratio of the first resin to the ultraviolet blocker is about 1000 to 1.

4. The container according to claim 3 wherein said bottle 5 has a minimum wall thickness of between about 0.5 mm and about 2 mm and a volume of between about 5 cc about 15 cc.

5. The container according to claim 4 wherein said bottle comprises a cylindrical shape with side walls for enabling 10 dropwise squeeze dispensing of the product from said bottle.

6. A container for product protection and identification, said product comprising an ophthalmic formulation including chlorine dioxide, said container comprising:

15 a bottle formed from resins comprising of polypropylene, said resins including:

a first resin consisting of natural polypropylene;

20 a second resin consisting of polypropylene and a set of dyestuffs present in said bottle in an amount sufficient to absorb most visible and ultraviolet wavelengths causing degradation of chlorine dioxide;

an ultraviolet light blocking agent to remove ultraviolet wavelengths causing degradation of chlorine dioxide; and

25 a third resin consisting of polypropylene and a set of dyestuffs present in said bottle in an amount sufficient to provide an identifying blue color to said bottle while enabling sufficient transmission of light for visual inspection of the product contained in said bottle.

7. The container according to claim 6 wherein a ratio of first resin to second resin present in the bottle is about 20 to 1, a ratio of first to third resin present in the bottle is about 5 to 1, and a ratio of the first resin to the 5 ultraviolet blocking agent is about 1000 to 1.

8. The container according to claim 7 wherein said bottle has a minimum wall thickness of between about 0.5 mm and about 2 mm and a volume of between about 5 cc about 15 10 cc.

9. The container according to claim 8 wherein said bottle comprises a cylindrical shape with side walls for enabling dropwise squeeze dispensing of the product from said 15 bottle.

10. A container for product protection and identification, said product comprising an ophthalmic formulation including chlorine dioxide, said container 20 comprising:

a bottle formed from resins comprised of polypropylene, said bottle having a cylindrical shape, a volume of between about 5 ml and about 15 ml and walls having a thickness of between about 0.5 mm and about 2 mm for enabling dropwise 25 squeeze dispensing of the product from the bottle, said resins including

a first resin consisting of natural polypropylene;
a second resin consisting of polypropylene and a set of dyestuffs present in said bottle in an amount sufficient to 30 absorb most visible and ultraviolet wavelengths less than

about 420 nm; an ultraviolet blocking agent to absorb ultraviolet wavelengths less than about 312 nm; and

5 a third resin consisting of polypropylene and a set of dyestuffs present in said bottle in an amount sufficient to absorb most visible wavelengths greater than about 500nm, the second and third resin dyestuffs sets allowing transmission of visible blue wavelengths for enabling visual inspection of the product contained in said bottle and providing a product identifying color to said bottle.

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11. The container according to claim 10 wherein a ratio of first resin to second resin present in the bottle is about 20 to 1, the ratio of first to third resin present in the bottle is about 5 to 1, and a ratio of the first resin to the 15 ultraviolet blocking agent is about 1000 to 1.

12. A method for storing a pharmaceutical formulation comprising chlorine dioxide, said method comprising the steps of:

20 forming a bottle of a resin comprising polypropylene with a first set of dyestuffs present in said bottle in an amount sufficient to absorb visible and ultraviolet wavelengths less than about 420 nm, an ultraviolet blocking agent to absorb ultraviolet wavelengths less than about 312 25 nm, a second set of dyestuffs present in said bottle in an amount sufficient to absorb visible wavelengths greater than about 500n, the first and second dyestuffs sets allowing transmission of visible blue wavelengths for enabling visual inspection of the product contained in said bottle and 30 providing a product identifying color to said bottle,

disposing the pharmaceutical formulation in said bottle; and sealing said bottle.